

FEDERAL ON-SCENE COORDINATOR'S REPORT
FOR
UPPER GLADE DRUM DUMP SITE
CERCLA IMMEDIATE REMOVAL ACTION
Upper Glade, Webster County, West Virginia
August 3, 1987 to December 14, 1987



BENTON M. WILMOTH
ON-SCENE COORDINATOR
U.S. EPA REGION III
WHEELING, WEST VIRGINIA

AR100002

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AR100003

REGION III

Project #177

CERCLA EMERGENCY RESPONSE/IMMEDIATE REMOVAL ACTION FACTS SHEET

SITE: Upper Glade Drum Dump Site

LOCATION: Upper Glade, Webster County, West Virginia

APPROVAL DATE: August 3, 1987

PROJECT DATES: August 3, 1987 through December 14, 1987

DESCRIPTION: One 35 gallon drum of unknown contents, analyzed and found to contain mixture of solvenated diesel and herbicide with high concentrations of total xylenes and ethylbenzene compounds, was abandoned on property currently owned by Oliver Hall. The site is located adjacent Lower Williams River Road in Upper Glade, WV.

WASTE MATERIAL: Solvenated Diesel and Prometon (Herbicide)

QUANTITIES REMOVED: Two drums (55 gallon each)

OSC: Benton M. Wilmoth

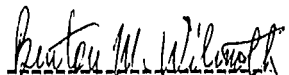
REMOVAL CONTRACTOR: AMO Pollution Services, Inc.

DISPOSAL LOCATION: Trade Waste Incineration, Sauget, Ill.

PROJECT CEILING: \$50,000.00

PROJECT COST: \$10,000.00 (estimated)

COMMENTS: OSC Wilmoth coordinated a combined response and removal to mitigate the threat of this small but dangerous drum. His concern for the safety of the Halls and nearby residents prompted activation of CERCLA monies for the initiation of the immediate removal of this threat to human health and the environment.



Benton M. Wilmoth
U.S. EPA Region III
Wheeling, West Virginia

AR100004

FOREWORD

The OSC, as mandated in the National Oil and Hazardous Substances Contingency Plan (NCP), is required to provide a coordinated Federal response capability at the scene of a sudden discharge of oil or hazardous substance that poses an imminent and substantial threat to the public health and/or the environment. In addition, the provisions of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) promote a coordinated Federal, State and Local response to mitigate situations at hazardous waste sites which pose an imminent and substantial hazard to public health and the environment.

The presence of the hazardous substance contained in the drum on Oliver Hall's property posed an imminent threat to children in the vicinity and to the environment and prompted an emergency response action to abate the threat. Thus, the provisions of the NCP and CERCLA were implemented by the U.S. Environmental Protection Agency, Region III, Wheeling, West Virginia.

The overall success of this project would not have been possible were it not for the cooperation received from the West Virginia Department of Natural Resources and a concerned community. I would like to commend those involved for their efforts and professional handling of this pollution incident.



Benton M. Wilmoth
U.S. EPA Region III
Wheeling, West Virginia

AR100005

INTRODUCTION

A. Initial Situation

On July 31, 1987 at 1400 hours, Pamela Hayes, West Virginia Department of Natural Resources (WVDNR), Division of Waste Management, notified EPA Region III of an unlabeled 35 gallon drum, source unknown, left uncontrolled along Lower Williams River Road near the Oliver Hall residence. The contents of the drum was unknown, yet suspected to be of pesticide/herbicide nature. EPA Region III, On Scene Coordinator Benton M. Wilmoth, was informed that the area within 10 feet of the drum was void of grass and that a child became ill for 2 days after inhaling the vapors of the contents. Residents also complained of noxious fumes emanating from the drum.

B. Location of the Site

The 35 gallon drum was located on Oliver Hall's property approximately 2 miles east of Cowen, WV. The residence is adjacent to Route 46 (Lower Williams Road) in the valley of the Glade Run tributary to the Gauley River.

A church and residential home were located near Hall's property and children were seen riding 3 wheelers on the roads bordering the site.

Site location maps and sketches are included as Appendix A of this report.

C. Efforts to Obtain Response from Potential Responsible Party

The drum was indicated by Mrs. Hall to have occupied the basement of a previous structure on the site. The pre-existing structure was torn down so that the foundation for the present mobile home could be built. During the demolition, the drum was discovered and moved outside to its present location.

Investigation into the owner of the previous structure resulted with no information on a potential discharger.

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ROSTER OF AGENCIES, ORGANIZATIONS AND INDIVIDUALS
Upper Glade Drum Dump Site, Upper Glade, Webster County, WV

Names and Addresses	Contact	Description of Duties
United States Environmental Protection Agency Emergency Response Section 303 Methodist Building Wheeling, WV 26003 (304) 233-9831	Benton Wilmoth	On Scene Coordinator responsible for integrating various agencies and overall success of project.
West Virginia Department of Natural Resources, Division of Waste Management 1201 Greenbrier Street Charleston, WV 25311 (304) 348-2745	Pamela Hayes	Initiated the initial spill report to EPA.
Roy F. Weston/SPER Division Technical Assistance Team 1025 Main Street Suite 436, Hawley Building Wheeling, WV 26003 (304) 233-1610	Joseph Carter Paul Ludwig	TAT-provided technical assistance, conducted contractor and safety monitoring during cleanup including photo-documentation and map making.
O.H. Materials Corp. 16406 U.S. Route 224 East P.O. Box 551 Findlay, OH 45839-0551 (419) 423-3526	R. J. Schock	Conducted analytical services required for this pollution incident. Subcontracted AMO in order to facilitate a more timely response.
AMO Pollution Services, Inc. Rt. 2, Box 311B Canonsburg, PA 15317 (412) 921-8486	Joseph Porco	Subcontracted cleanup contractor responsible for waste removal, transportation and disposal.

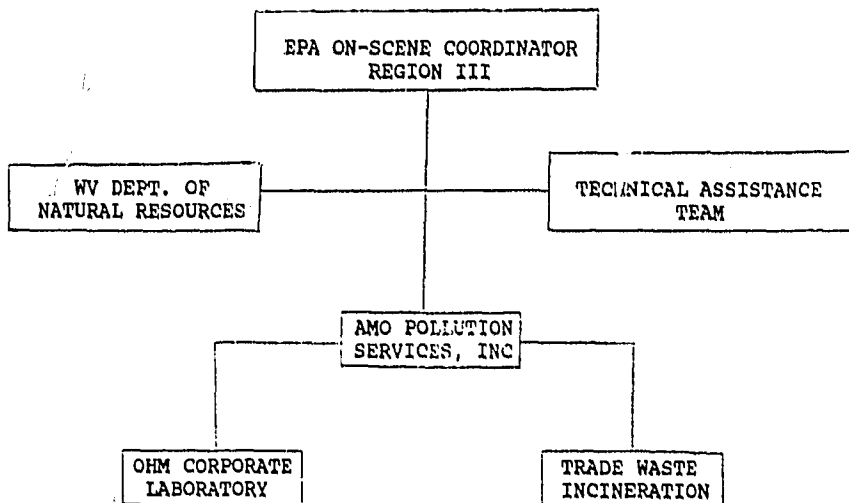
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ROSTER OF AGENCIES, ORGANIZATIONS AND INDIVIDUALS
Upper Glade Drum Dump Site, Upper Glade, Webster County, WV

Names and Addresses	Contact	Description of Duties
Trade Waste Incineration No. 7 Mobile Avenue Sauget, Illinois 62204 (618) 271 - 2804		Final disposal facility.

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ORGANIZATION OF THE RESPONSE



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NARRATIVE OF EVENTS

On July 31, 1987, Pamela Hayes of the West Virginia Department of Natural Resources (WVDNR) Division of Waste Management informed EPA Region III OSC Benton Wilmoth as to the presence of an unlabeled, leaking drum on the property of Oliver Hall in Upper Glade, Webster County, West Virginia. Contents of the drum were unknown, yet, considered toxic as a child had reportedly become ill for two days following inhalation of vapors emanating from the drum contents. Spillage from the drum had also caused stressed vegetation in Mr. Hall's yard, an area adjacent a small stream and frequented by children.

On August 3, 1987, OSC Benton Wilmoth issued Delivery Order No. 7445-03-001 in the amount of \$30,000 and hired AMO Pollution Services, Inc. to initiate immediate removal actions at the site. The OSC directed Roy F. Weston's Technical Assistance Team (TAT) to provide technical assistance, contractor monitoring, photographic documentation, safety monitoring, and QA sampling as needed throughout the duration of the project.

On August 4, 1987, the OSC, TAT's Carter and Ludwig, and ERCS personnel mobilized to the site to remove the drum and any contaminated soil generated from spillage of the drum contents. ERCS donned Level "B" protection, sampled and overpacked the 35 gallon drum, then excavated one 55 gallon drum of contaminated soil. The two drums were loaded onto a licensed box truck and transported to AMO's Temporary Storage Depot in Canonsburg, Pa. to await final disposal. The samples were delivered to O.H. Materials' Corporate Laboratory in Findlay, OH. for disposal analysis.

Mrs. Hall was onsite during the removal and informed TAT that the drum occupied the basement of a structure located previously on the site. The pre-existing structure was torn down so that the foundation for the present location could be built. The drum was discovered during the demolition and moved outside to its present location.

Investigation into the owner of the previous structure resulted with no information leading to a potential discharger.

On October 5, 1987, the OSC and TAT recieved the analytical report which reported the contents of the drum to be a mix of diesel, solvent compounds, and prometon (herbicide). The post cleanup samples were analyzed as clean which prompted AMO to initiate search for a final disposal facility to dispose of the two drums staged in their TSD facility.

On December 14, 1987, AMO Pollution Services, Inc., transported the two waste drums from TSD to Trade Waste Incineration upon acceptance for incineration disposal. At this time the OSC deemed the project closed.

AR100010

RESOURCES COMMITTED

A. Funding Request

Based on the preliminary assessment by the West Virginia Department of Natural Resources, the OSC identified an immediate and significant risk of harm to human health and the environment due to the presence of hazardous contents in the drum found at this site. Public health was threatened by direct contact, inhalation, and ingestion of the vapors emanating from the liquid in the 35 gallon drum.

In order to mitigate the significant threat posed by the drum, the OSC approved \$50,000 under Section 104 of CERCLA to secure and remove the hazardous substance and the contaminated soil.

A copy of Special Bulletin A outlining the OSC's activation of CERCLA funds is included in Appendix B of this report. The Delegation of Authority (14-1-A) authorizes the OSC to approve CERCLA removals with a total cost of less than \$50,000. On August 3, 1987 the OSC issued Delivery Order No. 7445-03-001 to ERCS in the amount of \$30,000 to initiate removal actions aimed at mitigating the threat to human health and the environment.

B. Total Cost Summary (Estimated)

Extramural	Amount
a. ERCS (AMO)	
1. Personnel (incl. per diem)	\$ 1,652.89
2. Equipment	43.15
3. Materials	495.44
4. Analytical	1,065.00
5. Storage	565.00
6. Transportation/Disposal	2,654.21
b. TAT	1,243.66
Extramural Subtotal	\$ 7,719.35
Intramural	Amount
a. EPA/OSC	\$ 956.72
b. EPA HQ (15%)	1,301.41
Intramural Subtotal	\$ 2,258.13
Total Project Costs	\$ 9,977.48

AR100011

EFFECTIVENESS OF THE REMOVAL

A. Activities of the Various Agencies

1. Potential Responsible Party

As mentioned earlier, the drum was discovered in the basement of a structure previously located on site. The structure has since been replaced and all efforts to identify a responsible party were unsuccessful.

2. Federal Agencies

Removal of the 35 gallon drum and contaminated soil adjacent Oliver Hall's residence was initiated by the EPA Region III, Wheeling, WV field office. OSC Benton Wilmoth integrated the actions of various agencies and contractors and directed onsite/offsite activities throughout the project.

3. State and Local Forces

West Virginia Department of Natural Resources was responsible for reporting the initial spill to EPA.

4. Contractors

The Emergency Response Cleanup Services (ERCS) subcontractor, AMO Pollution Services, Inc., supplied the personnel, equipment and materials required by the OSC to successfully complete the removal. AMO sampled and removed the contaminated soil and drum to their Temporary Storage Depot (TSD) in Canonsburg, PA, then transported the two drums of wastes to Trade Waste Incineration upon acceptance for incineration disposal.

Roy F. Weston's Technical Assistance Team (TAT) provided technical assistance, contractor monitoring, photographic documentation, and site safety monitoring during removal activities and assisted in preparation of the draft OSC Report.

B. Disposal Methods and Quantities Removed

ERCS subcontractor AMO Pollution Services, Inc., overpacked and removed from the site one 35 gallon drum of liquid waste, later analyzed to be a mix of diesel and prometon (herbicide) with high concentrations of solvent compounds (total xylenes, ethylbenzene, toluene), and one 55 gallon drum of contaminated soil. The drums were characterized as Waste Pesticide N.O.S. and Hazardous Waste Solid, respectively. Both drums were transported in a stake bed truck by AMO to their TSD facility in Canonsburg, PA. The two drums were then shipped to Trade Waste Incineration, in Sauget, Ill., on December 14, 1987.

AR100012

CHRONOLOGY OF EVENTS

- July 31, 1987 Pamela Hayes, West Virginia Department of Natural Resources (WVDNR), Division of Waste Management notified OSC Benton M. Wilmoth as to the presence of an uncontrolled leaking drum, illegally dumped by persons unknown on the present property of Oliver Hall in Upper Glade, Webster County, West Virginia. It was reported that spillage from the drum had caused stressed vegetation in the immediate area and that a child became ill for two days after inhaling vapors emanating from the contents of the drum.
- Aug. 3, 1987 OSC B. Wilmoth issued Delivery Order No. 7445-03-001 in the amount of \$30,000 and hired AMO Pollution Services, Inc. to initiate immediate removal actions at the site.
- OSC directed Roy F. Weston's Technical Assistance Team to be on scene to provide technical assistance, contractor monitoring, photographic documentation, safety monitoring, and QA sampling.
- Aug. 4, 1987 The OSC, TATM Carter and Ludwig and ERCS personnel mobilized to the site to commence removal activities. AMO personnel donned level "B" protection, sampled, then overpacked the 35 gallon drum. ERCS also excavated and removed one 55 gallon drum of contaminated soil from the area surrounding the drum and collected QA and background soil samples. TAT monitored all phases of the removal and assisted ERCS in determining sample locations.
- ERCS transported the two drums to their Temporary Storage Depot (TSD) in Canonsburg, PA., and delivered the samples to O.H. Materials' Corporate Laboratory in Findlay, Ohio for disposal analysis.
- Oct. 5, 1987 The OSC and TAT received analytical report which indicated the contents of the drum to contain diesel, solvent compounds, and prometon (herbicide). The post cleanup samples were analyzed as clean which prompted AMO to initiate search for final disposal facility for the two drums staged in their TSD facility.
- Dec. 14, 1987 AMO Pollution Services, Inc., transported the two waste drums from TSD to Trade Waste Incineration upon acceptance for incineration disposal. At this time the OSC deemed the project closed.

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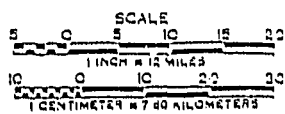
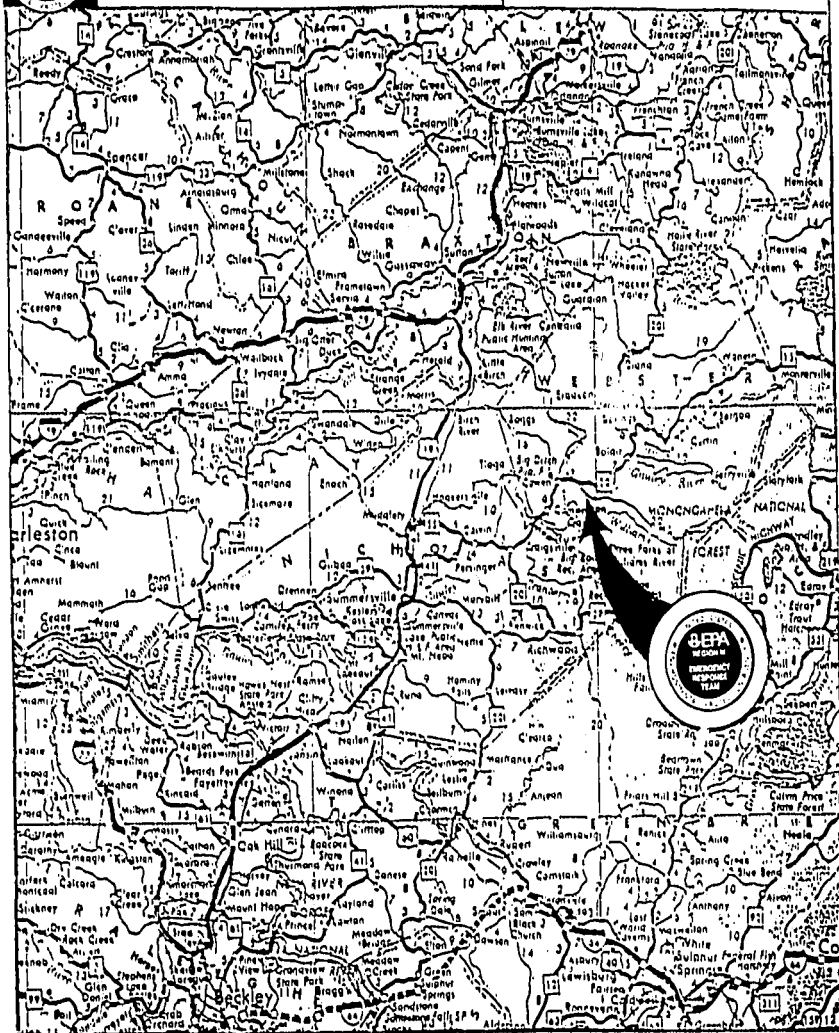
PROBLEMS ENCOUNTERED AND RECOMMENDATIONS

There were no problems encountered throughout the duration of this project.

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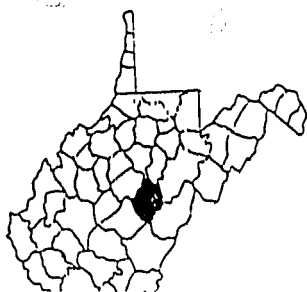


WESTON-SPER



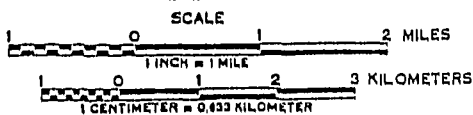
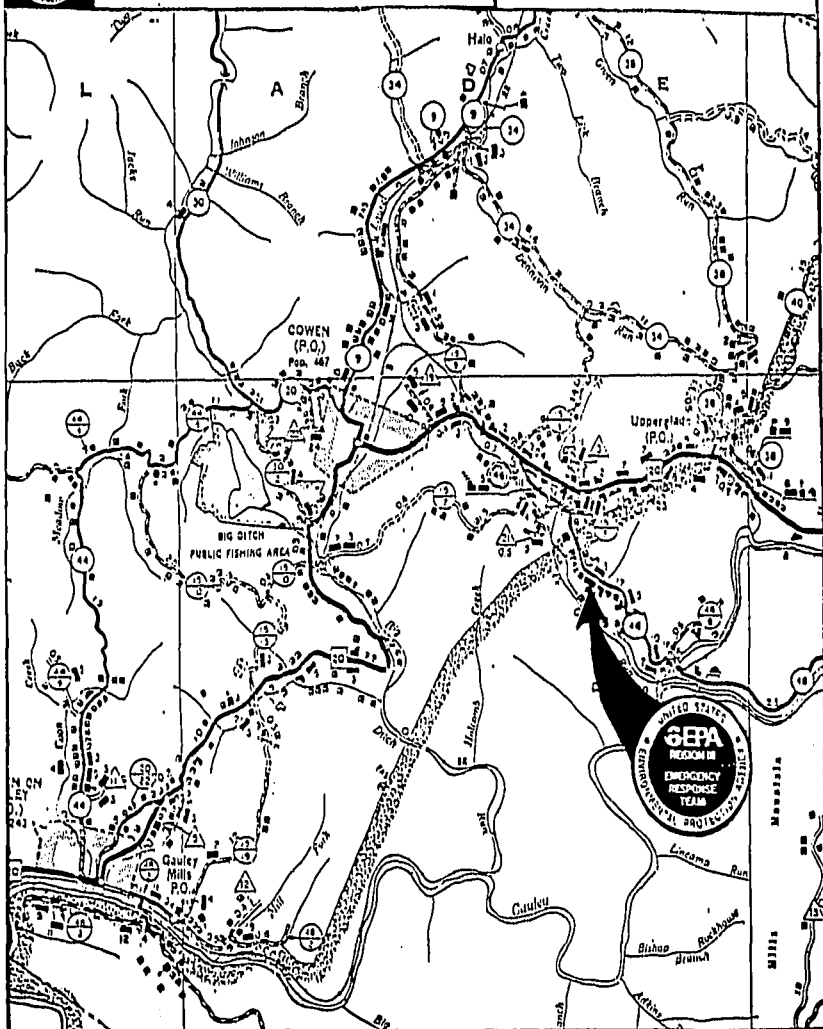
UPPERGLADE DRUM DUMP SITE
WEBSTER CO., WV

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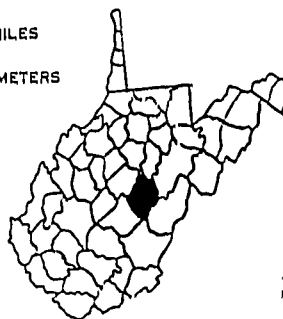


WESTON-SPER



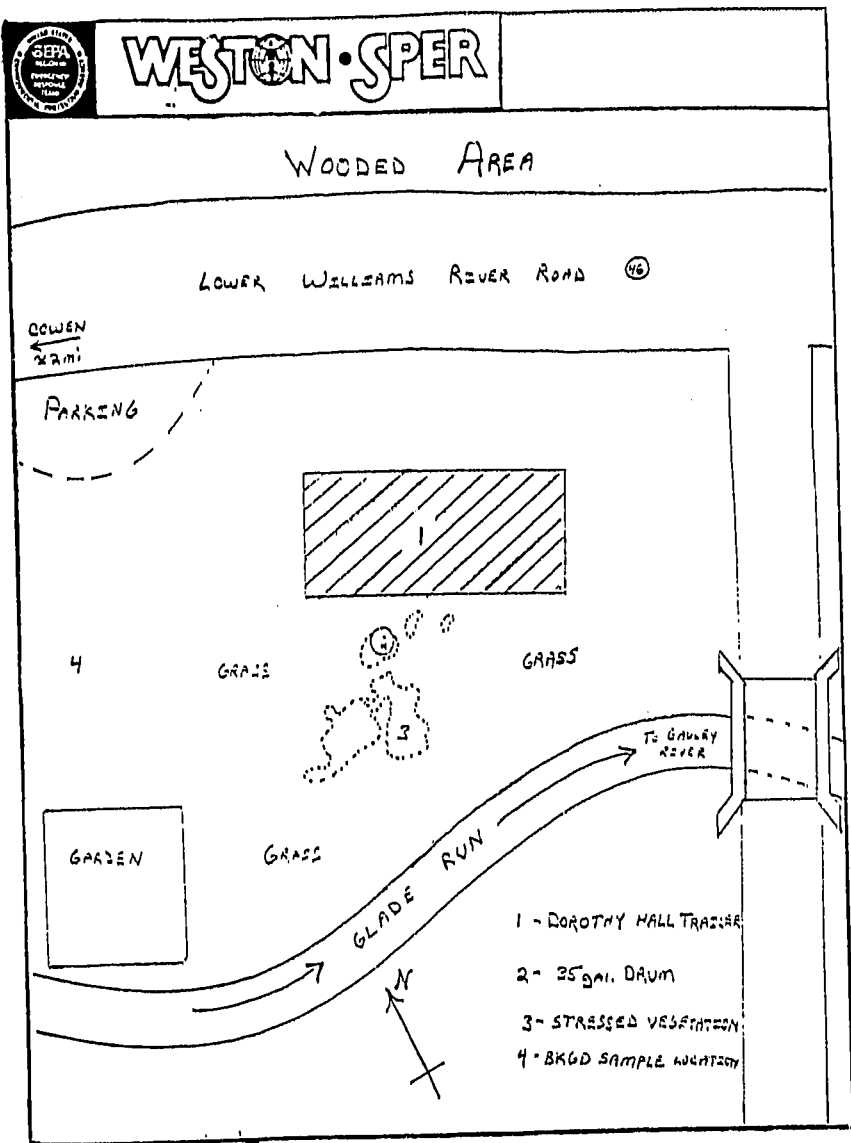
UPPERGLADE DRUM DUMP SITE
WEBSTER CO., WV

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UPPERGLADE DRUM DUMP SITE

WEBSTER COUNTY

UPPERGLADE, WV

(SKETCH IS NOT TO SCALE)

ARI00017

SPECIAL BULLETIN A
Upper Glade Drum Site
Upper Glade, Webster County, WV

TO: Regional Response Center
U.S. EPA Region III

DATE: August 3, 1987

FROM: Benton M. Wilmoth
On-Scene Coordinator (3HW22)

THRU: Stephen R. Wassersug, Director
Hazardous Waste Management Division (3HW00)

THRU: Thomas C. Voltaggio, Chief
Superfund Branch (3HW20)

THRU: Thomas I. Massey, Chief
Emergency Response Section (3HW22)

I. INTRODUCTION

An inspection performed in accordance with the National Contingency Plan has identified an immediate and significant risk of harm to human health and the environment posed by the presence of a leaking liquid drum containing unknown materials. An unlabeled drum of an unknown chemical was found to have been illegally dumped by persons unknown at this time along property owned by Oliver Hall, Upper Glade, Webster County, West Virginia.

Section 104 of CERCLA calls for the initiation of immediate removal where there is a threat of a release of a hazardous substance which may present an imminent and substantial danger to public health or welfare.

The Delegation of Authority 14-1-A (4/8/86) authorizes the OSC to approve CERCLA removals with a total cost of less than \$50,000. The OSC, therefore, approved the use of CERCLA funds at this site to mitigate the threat to human health and the environment by securing and removing the hazardous unknown substance and contaminated soil to proper storage and disposal.

SPECIAL BULLETIN A
Upper Glade Drum Site

II. BACKGROUND

On July 31, 1987, Pam Hayes, West Virginia Department of Natural Resources (WVDNR) Division of Waste Management notified OSC Benton Wilmoth as to the leaking drum of unknown materials which had been illegally dumped near Oliver Hall's property by persons unknown. The drum is lying along the road and has produced a large area of vegetation stress and has also made a local child ill who came into contact with the drum.

III. THREAT

The threat of direct human contact, inhalation, and ingestion of vapors emanating from the hazardous material was substantial. Residents were complaining of strong noxious odors, and stated that the material stressed vegetation in a 10 foot area directly around the site. One child was reportedly made ill for two days as a result of contact with the drum.

The drum is located near the Oliver Hall residence in Upper Glade, West Virginia which lies on Glade Run, a tributary to the Gauley River.

The drum is located alongside Route 46 in Upper Glade, adjacent to the Oliver Hall residence, 0.2 miles from the K & L Grocery Store, 0.4 miles from the Pentecostal Church of God, and approximately 0.1 miles from Glade Run.

IV. SCOPE OF WORK

The scope of work proposed for implementation with the emergency \$50,000 appropriation includes 1) Overpacking and removing the contaminated drum; 2) Removal of contaminated soil into drums; 3) Temporary storage at a RCRA approved TSD facility until such time as final disposal is arranged; 4) Sample analysis to be performed on drum sample to determine disposal arrangements.

The authorized budget for this \$50K removal is:

EPA	\$ 5,000
EPA HQ. (15%)	7,500
TAT	7,500
ERCS	30,000

TOTAL	\$ 50,000


SPECIAL BULLETIN A
Upper Glade Drum Site

V. OSC ACTION

On August 3, 1987 the OSC issued Delivery Order No. 7445-03-001 to ERCS in the amount of \$30,000 to initiate removal actions aimed at mitigating the threat to human health and the environment.

At this time, no Potential Responsible Parties (PRP) have been identified. As a result, the OSC has initiated this CERCLA removal.

Because the conditions of the Upper Glade Drum Site meet the conditions of Section 300.65 of the National Contingency Plan for and immediate removal, the OSC has approved this immediate removal action.


Benton M. Wilmoth, OSC
U.S. EPA - Region III
Wheeling, WV

ANALYTICAL REPORT

O.H. Materials Corp.
16400 U.S. Route 224 East
P.O. Box 551
Findlay, Ohio 45839-0551
419-423-3526
Telex 298218 OHM U R DR A

 OHM

CLIENT: USEPA Region III
Upperglade WV

ATTN:

OHM PROJECT NUMBER: 5131E
OHM PROJECT MANAGER: J. Copus

SAMPLE TYPE: Liquid
ANALYSIS PERFORMED:
Incineration Disposal


DATE COMPLETED: 9-23-87

DATE RECEIVED: 9-01-87

This report is "PROPRIETARY AND CONFIDENTIAL" and delivered to, and intended for the exclusive use of, the above named client only. O.H. Materials Corp. assumes no responsibility or liability for the reliance hereon or use hereof by anyone other than the above named client.

All of the analyses and data interpretation that form the basis of this report was prepared under the direct supervision and control of the undersigned who is solely responsible for the contents and conclusions therein.

Reviewed and
Approved by:


Thomas E. Gran, Ph.D., Manager Analytical Services

9-26-87
Date

PROJECT 5131ESUMMARY REPORT OF ANALYTICAL SERVICESI. INTRODUCTION

O.H. Materials Corp. (OHM) Corporate Laboratory received one sample from USEPA Region III, Uppergrade, West Virginia. This sample was acquired by OHM's technical personnel and transferred to the laboratory complete with a chain-of-custody record, a copy of which is attached for reference. This composite was analyzed for incineration disposal parameters.

II. ANALYTICAL METHODOLOGY

- o Metals - Samples were prepared according to USEPA Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods, SW-846, 2nd edition, July 1982. Samples were prepared by either Method 3010, 3030, 3050, or 1310 as appropriate for the following metals: antimony, arsenic, barium, beryllium, cadmium, chromium, copper, iron, lead, manganese, mercury, nickel, selenium, silver, thallium, and zinc. Sample analyses for these metals were performed according to method 6010, Inductively Coupled Plasma Method (SW-846 Proposed Sampling and Analytical Methodologies, 1984).
- o Density - Densities were determined by either ASTM Method D1298-80 for liquids or by Method D153 for solids, Standard Methods for the Examination of Water and Wastewater 16th edition, 1985.
- o BTU Content-Solids and Liquids - The BTU content of the samples was determined by either ASTM E711-81, Test Method for Gross Calorific Value of Refuse Derived Fuel (RDF-3) by Bomb Calorimeter, Section II, Vol. 11.04 or by ASTM D240-76, Test Method for Heat of Combustion of Liquid Hydrocarbon Fuels by Bomb Calorimeter, Section 5, Vol. 05.01.
- o Ash Content - The ash content of the samples was determined by either ASTM E830-81, Test Method for Ash in the Analysis Samples of Refuse-Derived Fuel (RDF-3), Section II, Vol. 11.04, or by ASTM D482-80 Test Method for Ash from Petroleum Products, Section 5, Vol. 05.01.
- o Sulfur Content - The sulfur content of the samples was determined by either ASTM E775-81, Test Methods for Total Sulfur in the Analysis Sample of Refuse-Derived Fuel, Section II, Vol. 11.04, or by ASTM D129-64 (1978), Test Method for Sulfur in Petroleum Products (General Bomb Method), Section 5, Vol. 05.01.

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PROJECT 5131ESUMMARY REPORT OF ANALYTICAL SERVICES

- o Pesticides and PCB Content - Samples were prepared by Method 3510, 3540, or 3550 as appropriate; and analyzed according to Method 8080 of USEPA Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods, SW-846, 2nd edition, July 1982.
- o Chlorine Content - The samples were analyzed for percent chlorine according to American Society for Testing and Materials, Section 5, Method D808-81, Chlorine in New and Used Petroleum Products (Bomb Method).
- o Viscosity - Organic liquids were analyzed using a Brookfield viscometer according to ASTM D2983, Volume 5.03, 1983.
- o Water and Sediment Content - Organic liquids were analyzed for percent levels of water and sediment according to ASTM D4007, Volume 5.03, 1983, Centrifuge Method.
- o GC/MS Volatile Organic Analyses and Screens - Volatile analysis of the samples are performed using methods based on USEPAs Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods, SW-846, July 1982; Method 8240, GC/MS Methods for Volatile Organics.
- o GC/MS Semi-Volatile Organic Analyses and Screens - Acid and base neutral extractables are prepared and analyzed using methods based on USEPAs Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods, SW-846, July 1982; Method 8240, GC/MS Methods for Semi-Volatile Organics.
- o Flash Point - Flash points were performed according to the procedure specified in USEPA Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods, SW-846, 2nd edition, July 1982; Method 1010, Pensky-Martin Closed-cup Method.

III. ANALYTICAL RESULTS

The following tables detail the analytical results for sample #5131E-694.

AR100023

PROJECT 5131ETABLE 1 - INCINERATION DISPOSAL ANALYSIS

SAMPLE IDENTIFIER: Liquid
OHM SAMPLE NUMBER: 5131E-694

Parameter	Result
Color	Red
Odor	Mild, Solvent
Number of Phases	1
Percent by volume of phases	100
Physical state of phases	Liquid
Density	0.87 gm/cm ³
Flash Point, FM, CC	49°C
Viscosity, Brookefield	< 1.5 cpu
BTU Content	18,900 BTU/lb
Ash Content	0.03% by weight
Chlorine Content	< 0.1% by weight
Sulfur Content	0.31% by weight
Moisture Content	< 0.1% Moisture
Sediment Content	< 0.1% Sediment

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PROJECT 5131ETABLE 2 - VOLATILE ORGANICS

SAMPLE IDENTIFIER: Liquid
OHM SAMPLE NUMBER: 5131E-694

Compound	Concentration (mg/L)
Benzene	BDL
Bromomethane	BDL
Bromodichloromethane	BDL
Bromoform	BDL
Carbon Tetrachloride	BDL
Chlorobenzene	BDL
Chloroethane	BDL
2-Chloroethylvinyl ether	BDL
Chloroform	BDL
Chloromethane	BDL
Dibromochloromethane	BDL
1,2-Dichlorobenzene	BDL
1,3-Dichlorobenzene	BDL
1,4-Dichlorobenzene	BDL
1,1-Dichloroethane	BDL
1,2-Dichloroethane	BDL
1,1-Dichloroethene	BDL
Trans-1,2-Dichloroethene	BDL
1,2-Dichloropropane	BDL
Cis-1,2-Dichloropropene	BDL
Trans-1,3-Dichloropropene	BDL
Ethylbenzene	23,700
Methylene Chloride	BDL
1,1,2,2-Tetrachloroethane	BDL
Tetrachloroethene	BDL
1,1,1-Trichloroethane	BDL
1,1,2-Trichloroethane	BDL
Trichloroethene	BDL
Trichlorofluoromethane	BDL
Toluene	683
Vinyl Chloride	BDL
Total Xylenes	51,900

Limit of Detection = 500 mg/L ppm (parts-per-million)
BDL = Below Detection Limit

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PROJECT 5131ETABLE 3 - VOLATILE HSL COMPOUNDS

SAMPLE IDENTIFIER: Liquid
ETC SAMPLE NUMBER: 5131E-694

Compound	Concentration (mg/L)	Detection Limit (mg/L)
Acetone	BDL	10,000
Acrolein	BDL	50,000
Acrylonitrile	BDL	50,000
2-Butanone	BDL	10,000
Carbon Disulfide	BDL	5,000
Ethyl ether	BDL	10,000
Ethylene Dibromide	BDL	10,000
2-Hexanone	BDL	10,000
4-Methyl-2-Pentanone (MIBK)	BDL	10,000
Styrene	BDL	10,000
Tetrahydrofuran	BDL	20,000
1,1,2-Trichloro-1,2,2-trifluoroethane	BDL	5,000
Vinyl Acetate	BDL	10,000

mg/L = ppm (parts-per-million)
BDL = Below Detection Limit

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PROJECT 5131E

TABLE 4 - VOLATILE SCREEN RESULTS

SAMPLE IDENTIFIER: Liquid
OHM SAMPLE NUMBER: 5131E-694

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Compound	Concentration (mg/L)
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No chromatographic peaks present with an area greater than 25% of the internal standards

AR100027

PROJECT 5131ETABLE 4 - BASE/NEUTRAL COMPOUNDSSAMPLE IDENTIFIER: Liquid
OHM SAMPLE NUMBER: 5131E-694

Compound	Concentration (mg/L)
Acenaphthene	BDL
Acenaphthylene	285
Anthracene	BDL
Benzo(a)anthracene	BDL
Benzo(b)fluoranthene	BDL
Benzo(k)fluoranthene	BDL
Benzo(a)pyrene	BDL
Benzo(g,h,i)perylene	BDL
Bis(2-chloroethyl)ether	BDL
Bis(2-chloroethoxy)methane	BDL
Bis(2-ethylhexyl)phthalate	BDL
Bis(2-chloroisopropyl)ether	BDL
4-Bromophenyl phenyl ether	BDL
Butyl benzyl phthalate	BDL
2-Chloronaphthalene	BDL
4-Chlorophenyl phenyl ether	BDL
Chrysene	BDL
Dibenzo(a,h)anthracene	BDL
Di-n-butylphthalate	BDL
1,3-Dichlorobenzene	BDL
1,4-Dichlorobenzene	BDL
1,2-Dichlorobenzene	BDL
Diethylphthalate	BDL
Dimethylphthalate	BDL
2,4-Dinitrotoluene	BDL
2,6-Dinitrotoluene	BDL
Diethylphthalate	BDL
1,2-Diphenyl hydrazine	BDL
Fluoranthene	124
Fluorene	510
Hexachlorobenzene	BDL
Hexachlorobutadiene	BDL
Hexachloroethane	BDL
Hexachlorocyclopentadiene	BDL
Indeno-(1,2,3-cd)pyrene	BDL
Isophorone	BDL
Naphthalene	870
Nitrobenzene	BDL
N-Nitrosodi-n-propylamine	BDL
N-Nitrosodiphenylamine	537
Phenanthrene	1,250
Pyrene	BDL
1,2,4-Trichlorobenzene	BDL

Limit of Detection = 100 mg/L ppm (parts-per-million)
BDL = Below Detection Limit

AR100028

PROJECT 5131ETABLE 5 - ACID EXTRACTABLE

SAMPLE IDENTIFIER: Liquid
OHM SAMPLE NUMBER: 5131E-694

Compound	Concentration (mg/L)
4-Chloro-3-Methylphenol	BDL
2-Chlorophenol	BDL
2,4-Dichlorophenol	BDL
2,4-Dimethylphenol	BDL
2,4-Dinitrophenol	BDL
2-Methyl-4,6-Dinitrophenol	BDL
2-Nitrophenol	BDL
4-Nitrophenol	BDL
Pentachlorophenol	BDL
Phenol	BDL
2,4,6-Trichlorophenol	BDL

Limit of Detection = 100 mg/L ppm (parts-per-million)
BDL = Below Detection Limit

AR100029

PROJECT 5131ETABLE 7 - ADDITIONAL SEMI-VOLATILE HSL COMPOUNDS

SAMPLE IDENTIFIER: Liquid
OHM SAMPLE NUMBER: 5131E-694

Compound	Concentration (mq/L)
Aniline	BDL
Benzyl Alcohol	BDL
4-Chloroaniline	BDL
Dibenzofuran	290
2-Methylnaphthalene	3,740
2-Methylphenol	BDL
4-Methylphenol	BDL
2-Nitroaniline	BDL
3-Nitroaniline	BDL
4-Nitroaniline	BDL
2,4,5-Trichlorophenol	BDL

Limit of Detection = 100 mg/L ppm (parts-per-million)
BDL = Below Detection Limit

AR100030.

9-25-87
10

PROJECT 5131E

TABLE 8 - SEMI-VOLATILE SCREEN RESULTS

SAMPLE IDENTIFIER: Liquid
OHM SAMPLE NUMBER: 5131E-694

Compound	Concentration (mg/L)
Prometon	41,200
Total Petroleum Hydrocarbons: analyzed by GC-FID	
Diesel Fraction	967,000

Limit of Detection = 100 mg/L ppm (parts-per-million)
BDL = Below Detection Limit

AR100031

PROJECT 5131ETABLE 8 - PESTICIDES AND PCBS

SAMPLE IDENTIFIER: Liquid
OHM SAMPLE NUMBER: 5131E-694

Compound	Concentration (mg/L)	Detection Limit (mg/L)
Aldrin	BDL	0.1
BHC-alpha	BDL	0.1
BHC-beta	BDL	0.1
BHC-gamma	BDL	0.1
BHC-delta	BDL	0.1
Chlordane	BDL	1.0
4,4'-DDD	BDL	0.1
4,4'-DDE	BDL	0.1
4,4'-DDT	BDL	0.1
Dieldrin	BDL	0.1
Endosulfan-alpha	BDL	0.1
Endosulfan-beta	BDL	0.1
Endosulfan sulfate	BDL	0.1
Endrin	BDL	0.1
Endrin aldehyde	BDL	0.1
Heptachlor	BDL	0.1
Heptachlor epoxide	BDL	0.1
Toxaphene	BDL	1.0

POLYCHLORINATED BIPHENYLS

Aroclor 1016	BDL	1.0
Aroclor 1221	BDL	1.0
Aroclor 1232	BDL	1.0
Aroclor 1242	BDL	1.0
Aroclor 1248	BDL	1.0
Aroclor 1254	BDL	1.0
Aroclor 1260	BDL	1.0

mg/L = ppm (parts-per-million)
BDL = Below Detection Limit

AR100032

PROJECT 5131ETABLE 9 - TOTAL METALS FOR INCINERATION DISPOSAL

SAMPLE IDENTIFIER: Liquid
OHM SAMPLE NUMBER: 5131E-694

Compound Name	Concentration mg/L	Detection Limit mg/L
Antimony	BDL	1.0
Arsenic	BDL	1.0
Barium	6.08	1.0
Beryllium	BDL	1.0
Cadmium	BDL	1.0
Chromium (Total)	BDL	1.0
Copper	BDL	1.0
Iron	BDL	1.0
Lead	BDL	1.0
Manganese	BDL	1.0
Mercury	BDL	0.2
Nickel	BDL	1.0
Selenium	BDL	1.0
Silver	BDL	1.0
Thallium	1.55	1.0
Zinc	7.86	1.0

mg/L = ppm (parts-per-million)
BDL = Below Detection Limit

AR100033

PROJECT 5131EQC SUMMARY

A. GC/MS Priority Pollutant Volatile Organics:

BFB Tune File: See attached

Surrogate Recoveries:

	<u>Sample</u>	<u>Blank</u>	<u>Spike</u>
1,2-Dichloroethane-d ₆	106	107	104
Benzene-d ₆	113	110	104
Toluene-d ₈	114	115	106
BFB	109	111	104

Volatile Organics Spike Recoveries: (In Percentages)

Benzene	101
Bromomethane	101
Bromodichloromethane	111
Bromoform	146
Carbon Tetrachloride	125
Chlorobenzene	109
Chloroethane	107
2-Chloroethylvinyl ether	115
Chloroform	113
Chloromethane	99.0
Dibromochloromethane	136
1,2-Dichlorobenzene	104
1,3-Dichlorobenzene	104
1,4-Dichlorobenzene	104
1,1-Dichloroethane	117
1,2-Dichloroethane	96.8
1,1-Dichloroethene	113
Trans-1,2-Dichloroethene	102
1,2-Dichloropropane	109
1,3-Dichloropropenes	105
Ethylbenzene	101
Methylene Chloride	111
1,1,2,2-Tetrachloroethane	88.2
Tetrachloroethene	111
1,1,1-Trichloroethane	105
1,1,2-Trichloroethane	102
Trichloroethene	116
Trichlorofluoromethane	115
Toluene	102
Vinyl Chloride	107
Total Xylenes	115

AR100034

PROJECT 5131EQC SUMMARY (CONTINUED)

Volatile Organics Spike Recoveries (in Percentages): Continued

Additional Compounds

Methyl ethyl Ketone	99.0
Carbon Disulfide	112
Acetone	78.4
Methyl Isobutyl Ketone	106
Methyl Pentanone	97.0
Xylenes	105
Styrene	

B. Pesticides, Herbicides: Percent Spike Recoveries

Lindane	62.0
a-BHC	79.6
b-BHC	86.3
Heptachlor	85.0
g-BHC	73.0
PCBs (Aroclor 1254)	109
TPHC	81.6

C. Metals: Percent Spike Recoveries

Antimony	88.2
Arsenic	97.2
Barium	93.2
Beryllium	97.5
Cadmium	98.9
Chromium	97.4
Copper	92.9
Iron	95.6
Lead	95.4
Manganese	121
Mercury	110
Nickel	96.2
Selenium	92.5
Silver	101
Thallium	98.5
Zinc	114

AR100035

BROMOFLUOROBENZENE

CASE NO. _____ CONTRACTOR _____ CONTRACT NO. _____
 INSTRUMENT ID 4000 DATE 9/3/87 TIME 7:27
 RUN NUMBER 1 QC REPORT NO. _____ ANALYST DWA

TUNE CHECK:

<u>M/C</u>	<u>ION ABUNDANCE CRITERIA</u>	<u>% RELATIVE ABUNDANCE</u>	
50	15 - 40% of the base peak	29.7	
75	30 - 60% of the base peak	53.5	
95	Base peak, 100% relative abundance	100	
96	5 - 9% of the base peak	6.27	
173	Less than 1% of the base peak	0.52	
174	Greater than 50% of the base peak	74.5	
175	5 - 9% of mass 174	4.16	(5.54) ¹
176	Greater than 95%, but less than 101% of 174	77.8	(99.0) ¹
177	5 - 9% of mass 176	4.16	(5.64) ²

¹Value in parenthesis is % of mass 174.

²Value in parenthesis is % of mass 176.

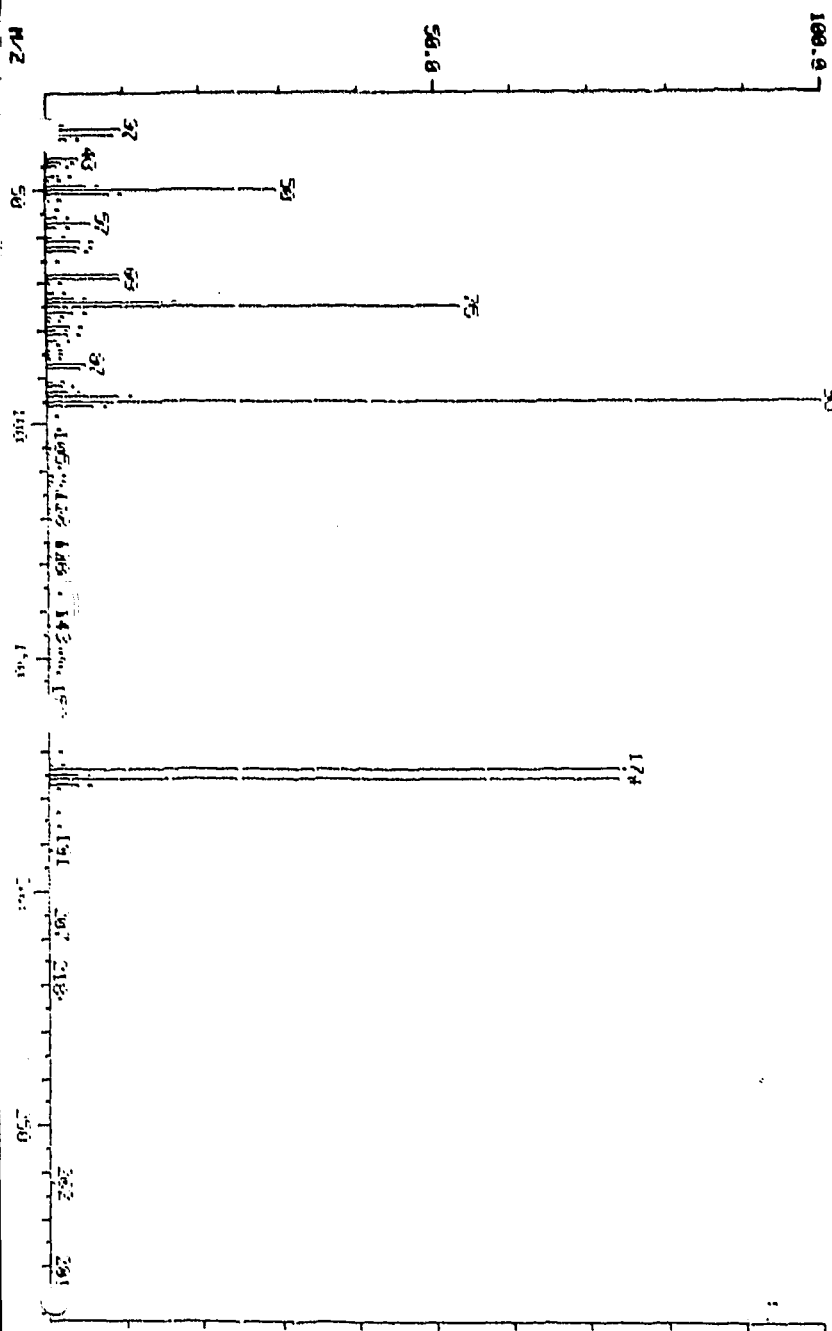
Comments:

AR100036

MASS SPECTRUM
 63-03-87 7:43:00 + 4:44
 SAMPLE: 1.8UC 444 SVO/SEB
 COND.: 4503.0-238120.0 @ 8.0 EPM 524
 #134 TO #151 SUMMED - #133 TO #152 AVER

DATA: 6FB30387 #142
 CELL: FC32887 #1

BASE M/Z: 95
 RIC: 9840.



AR100037

1922.

Mass List

09/03/87 7:43 00 + 4:44

Sample: 1. OUL (44 SNQ)BFB

Conds.: 45(3 0)-220(20.0) @ B.O EPA 624

#134 to #151 summed - #133 to #152 X1.00

Data: BFB90387 # 142

Call: FC82887 # 1

Base m/z: 95

RIC: 9840.

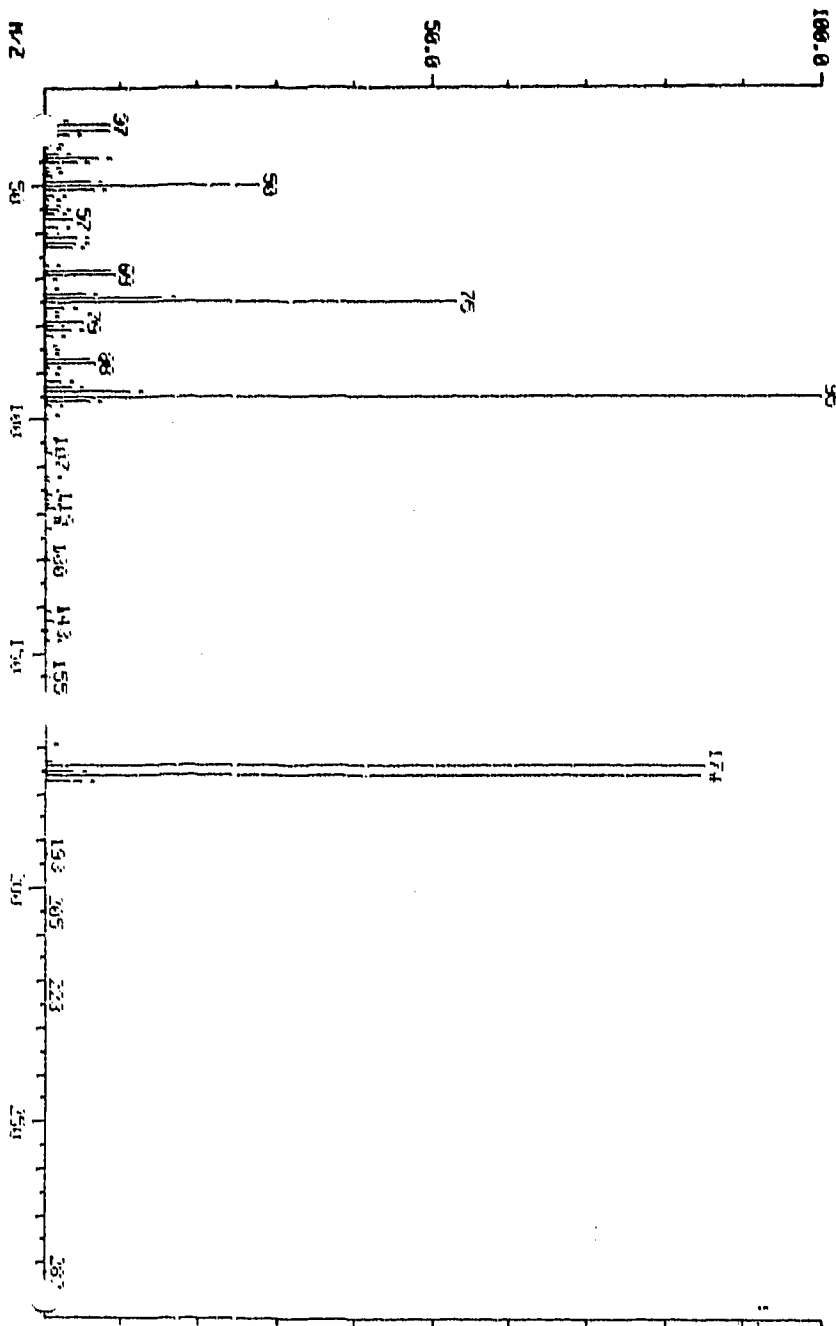
36 282 Mass	0 00 % RA	0 00 % RIC	0 # 0 Inten	0. Minima Maxima	Min Inten:	0. % RA	0. % RIC	0. Inten.	
36 000	S	0 94	0 18	18	104 00	S	0 31	0 06	6
37 000	S	9 68	1 89	186	105 00	S	0 57	0 11	11
38 000	S	8 79	1 72	169	106 00	S	0 47	0 09	9
39 000	S	2 91	0 57	56	109 00	S	0 21	0 04	4
43 000	S	4 37	0 85	84	111 00	S	0 88	0 17	17
44 000	S	2 24	0 44	43	112 00	S	0 88	0 17	17
45 000	S	1 56	0 30	30	113 00	S	0 47	0 09	9
47 000	S	1 93	0 36	37	114 00	S	0 05	0 01	1
48 000	S	0 62	0 12	12	115 00	S	0 36	0 07	7
49 000	S	5 41	1 04	104	117 00	S	0 05	0 01	1
50 000	S	25 71	5 80	571	118 00	S	0 52	0 10	10
51 000	S	8 38	1 64	161	119 00	S	0 42	0 08	8
52 000	S	0 42	0 06	6	120 00	S	0 47	0 09	9
54 000	S	0 31	0 06	6	125 00	S	0 36	0 07	7
56 000	S	1 56	0 30	30	126 00	S	0 16	0 03	3
57 000	S	5 93	1 14	114	128 00	S	0 47	0 09	9
58 000	S	1 51	0 29	29	129 00	S	0 16	0 03	3
60 000	S	0 59	0 19	19	130 00	S	0 26	0 05	5
61 000	S	4 47	0 87	86	132 00	S	0 21	0 04	4
62 000	S	4 53	0 88	87	136 00	S	0 16	0 03	3
63 000	S	4 11	0 80	79	141 00	S	0 31	0 06	6
65 000	S	0 31	0 06	6	143 00	S	0 62	0 12	12
68 000	S	5 31	1 82	179	148 00	S	0 21	0 04	4
69 000	S	5 73	1 90	187	149 00	S	0 31	0 06	6
70 000	S	0 52	0 10	10	150 00	S	0 52	0 10	10
72 000	S	0 54	0 19	19	151 00	S	0 26	0 05	5
73 000	S	3 80	0 74	73	152 00	S	0 16	0 03	3
74 000	S	15 20	2 98	293	153 00	S	0 05	0 01	1
75 000	S	53 47	10 45	1028	159 00	S	0 10	0 02	2
76 000	S	3 64	0 71	70	161 00	S	0 05	0 01	1
77 000	S	0 94	0 18	18	170 00	S	0 21	0 04	4
78 000	S	0 52	0 10	10	173 00	S	0 52	0 10	10
79 000	S	3 12	0 61	60	174 00	S	74 51	14 55	1432
80 000	S	1 30	0 25	25	175 00	S	4 16	0 81	80
81 000	S	3 07	0 60	59	176 00	S	73 78	14 41	1418
82 000	S	1 61	0 32	31	177 00	S	4 16	0 81	80
83 000	S	0 36	0 07	7	178 00	S	0 10	0 02	2
84 000	S	0 42	0 08	8	183 00	S	0 05	0 01	1
85 000	S	0 57	0 11	11	186 00	S	0 10	0 02	2
86 000	S	0 57	0 11	11	191 00	S	0 52	0 10	10
87 000	S	5 20	1 02	100	207 00	S	0 26	0 05	5
88 000	S	4 53	0 88	87	218 00	S	0 05	0 01	1
91 000	S	0 88	0 17	17	223 00	S	0 05	0 01	1
92 000	S	2 03	0 40	39	262 00	S	0 47	0 09	9
93 000	S	3 07	0 60	59	281 00	S	0 16	0 03	3
94 000	S	5 42	1 84	181	282 00	S	0 10	0 02	2
95 000	S	100 00	19 53	1922					
96 000	S	6 24	1 22	120					
98 000	S	0 05	0 01	1					
101 000	S	0 36	0 07	7					

AR100038

MASS SPECTRUM
 09/03/87 7:43:00 + 4:44
 SAMPLE: 1.0UL C14.5MG/CFB
 COND.: 45(0.0)-230(20.0) 3.0 EPH 624
 #138 TO #147 SUMMED - #141, 41.00

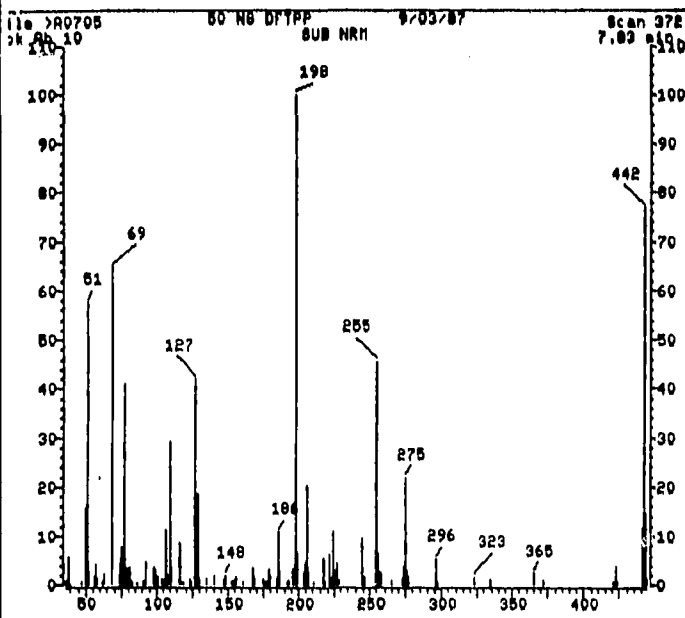
DATA: EFB50067 #142
 CH1: F082687 #1

EMSE M/Z: 95
 RIC: 52864.



ARI00039

9776.



A0705 50 NG DFTPP 9/03/87
 372 SUB NRM

file: >A0705 Scan #: 372 Retn. time: 7.83

AR100040

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
37.00	.88	82.00	.84	127.95	2.89	193.00	1.00	255.00	45.66
38.00	1.01	83.00	.82	128.95	18.60	195.95	3.15	256.00	6.50
39.00	5.71	85.95	.40	129.95	1.28	197.95	100.00	258.00	2.67
39.90	.20	86.95	.54	134.95	1.29	198.95	6.54	265.00	1.06
46.90	.76	90.95	.81	140.90	1.93	203.95	2.61	273.00	1.44
50.00	15.78	91.95	.79	146.90	1.06	204.95	4.43	274.00	3.80
51.00	57.65	92.95	4.73	148.00	2.01	206.05	20.39	275.00	21.97
52.00	2.72	97.95	3.65	152.90	.60	207.05	2.72	276.00	2.92
55.90	1.53	98.95	2.99	154.90	.97	210.85	.88	277.00	1.67
56.90	4.19	100.85	1.65	156.00	1.67	216.95	5.39	296.10	5.45
57.90	1.28	103.95	1.07	161.00	.86	217.95	.65	297.00	.83
62.00	.67	104.95	.99	167.00	3.63	220.95	6.09	322.95	1.76
62.90	2.21	106.95	11.37	167.90	1.62	222.95	1.39	334.05	1.19
68.90	64.68	107.95	1.88	175.00	1.48	224.05	11.07	364.90	2.49
74.00	4.39	109.95	29.27	176.90	.79	225.05	3.04	372.00	1.07
75.00	7.83	111.05	3.74	178.90	1.85	227.95	4.70	421.05	.59
76.00	2.56	116.05	.76	180.00	1.85	227.95	.72	423.05	4.03
77.00	40.95	116.95	8.82	185.00	1.39	228.95	.97	424.05	.86
78.00	2.81	117.95	.20	186.00	1.67	229.05	3.71	425.05	11.55

AR100040

78.90	3.33	122.95	1.44	187.00	2.87	245.05	1.30	442.05	76.86
79.90	2.41	123.95	.98	192.00	.87	245.95	1.68	443.05	14.54
80.00	3.69	126.95	41.93						

AR100041

(0-15-86)

GC/MS PERFORMANCE STANDARD

Decafluorotriphenylphosphine

SE NO. _____ CONTRACTOR _____ CONTRACT NO. _____
 INSTRUMENT ID MSD1 DATE 9/3/87 TIME 1430
 RUN NUMBER 3 QC REPORT NO. _____ ANALYST GB

TUNE CHECK: EM 2150

m/c	Ion Abundance Criteria	% Relative Abundance
51	30-60% of mass 198	57.7
68	less than 2% of mass 69	0 (0) ¹
69	mass 69 relative abundance	64.7
70	less than 2% of mass 69	0 (0) ¹
127	40-60% of mass 198	41.9
197	less than 1% of mass 198	0
98	base peak, 100% relative abundance	100
199	5-9% of mass 198	6.54
275	10-30% of mass 198	22.0
365	greater than 1% of mass 198	2.49
441	less than mass 443	11.6
442	greater than 40% of mass 198	76.9
443	17-23% of mass 442	14.5 (16.9) ²

¹Value in parenthesis is % mass 69²Value in parenthesis is % mass 442

Comments:

AR100042



O.H. Materials Corp.
P.O. Box 551
Findlay, Ohio 45839-0551
Phone (419) 423-3526

The Environmental Services Company

CHAIN-OF-CUSTODY RECORD

25212

PROJECT LOCATION WEBSTER COUNTY		NAME OF CLIENT U.S. EPA / REGION III		PROJECT TELEPHONE NO (304) 233-2342		PROJECT NUMBER 5131E	
ITEM NUMBER	SAMPLE NUMBER	NUMBER & SIZE OF CONTAINERS	DESCRIPTION	TRANSFER NUMBER & CHECK	TRANSFER NUMBER & CHECK	DATE	TIME
22	6.13	1 - 1.5L	SOIL SAMPLE FROM 12.11.87	1	✓	8/20/87	1300
23	6.14	1 - 3.0L → 110.	LIQUID LIQUID	2	✓	9/1/87	1100
				3			
				4			
				5			
				6			

AR100043

Person Responsible for sample
STEVE RENNINGER AND POLLUTION

Analysis for disposal & extent of contamination.



Hawley Building, Suite 436, 1025 Main Street, Wheeling, WV 26003
(304) 233-1610

TECHNICAL ASSISTANCE TEAM FOR EMERGENCY RESPONSE REMOVAL AND PREVENTION
EPA CONTRACT 68-01-7367

TO: Benton M. Wilmoth, U.S. EPA, Region III

THRU: Jennifer Brown, ATATL, Region III

FROM: Joseph Carter, TAT, Region III

SUBJECT: Evaluation of the Hazard to Human Health from Direct Contact with Mixture of Solvenated Petroleum Hydrocarbons and Prometon. (Upper Glade Drum Site)

DATE: February 10, 1988.

Analyticals received from the samples taken at the Upper Glade Drum Site removal on 8/4/87, indicated the 35 gallon drum to contain high concentrations of petroleum hydrocarbons offset by a smaller concentration of prometon (herbicide). The liquid consequently is a mix of diesel and herbicide and is highly toxic due to the high solvent ratio in the diesel.

The solvent compounds within the diesel (xylenes, ethylbenzene, toluene) represent mild eye and mucous membrane irritants, skin irritants, and central nervous system depressants. Ingestion of the constituents causes severe gastrointestinal upset abdominal pain, nausea, vomiting, and an aspiration hazard. Inhalation of large amounts of ethylbenzene produces coughing, dyspnea, headache, dizziness and unconsciousness while xylenes result in symptoms that resemble acute poisoning and may cause hyperplasia upon inhaling. Direct eye contact causes conjunctivitis and corneal burns. (HAZLINE, 1988)

Prometon is an herbicide used in weed control for cereal and vegetable crops. When ingested prometon is rapidly absorbed and metabolized and may cause systematic intoxication through prolonged contact with skin. (Boehme and Baer, 1967)

The aforementioned chemical compounds were present in the drum in concentrations surpassing permissible exposure limits.

Roy F. Weston, Inc.

SPILL PREVENTION & EMERGENCY RESPONSE DIVISION

In Association with ICF Technology Inc., C.C. Johnson & Associates, Inc., Resource Applications, Inc., Geo/Resource Consultants, Inc., and Environmental Toxicology International, Inc.

AR 100044

WESTON

Concentrations of total xylenes and ethylbenzene exceeded the Immediately Dangerous to Life or Health Concentration set by OSHA and NIOSH.

References:

Boehme and Baer, 1967; Gosselin, Smith, Hodge, CLINICAL TOXICOLOGY OF COMMERCIAL PRODUCTS. 5th Edition, section II, pg. 334-5, #1267.

Hazard Line 1988, Data System

POLREP #1 - Upper Glade Drum Site
Upper Glade, Webster Co., WV

ATTENTION: Tom Massey and Tim Fields

I. Situation (1700 hrs., 8/03/87)

A. On July 31, 1987, Pam Hayes, West Virginia Department of Natural Resources (WVDNR), Division of Waste Management notified OSC Benton Wilmoth as to the presence of an unlabeled, leaking drum which had been illegally dumped by persons unknown near Oliver Hall's property in Upper Glade, Webster County, West Virginia. The drum has caused stressed vegetation in its immediate area and caused a child to become ill who came in contact with the drum. Residents were also complaining of strong odors emanating from the drum.

B. The OSC recognized the need for appropriate emergency response action which resulted in the OSC's use of Delegation of Authority (14-1-A) for mitigative actions to protect the public health and welfare.

C. On August 3, 1987 the OSC issued Delivery Order No. 7445-03-001 to ERCS (AMO Pollution Services, Canonsburg, PA) for \$30,000 to initiate removal actions at the site.

D. The authorized budget for this \$50K removal is:

EPA	\$ 5,000
EPA HQ (15%)	7,500
TAT	7,500
ERCS	30,000

TOTAL	\$ 50,000

II. Actions Taken

A. 8/3/87 OSC Wilmoth initiated CERCLA cleanup action and wrote delivery order #7445-03-001 for \$30K and activated ERCS. The contractor is AMO Pollution Services, Canonsburg, PA who was directed to be on-site 1300 hrs., 8/4/87.

B. 8/3/87 OSC directed TAT to be on-scene to provide site documentation and perform QA sampling.

III. Future Plans

A. OSC/TAT/ERCS to mobilize to site to remove drum and contaminated soil from site.

Benton Wilmoth
Benton Wilmoth, OSC
US EPA - Region III
Wheeling, WV 26003

POLREP #2 - Upper Glade Drum Site
Upper Glade, Webster Co., WV

ATTENTION: Tom Massey and Tim Fields

I. Situation (1700 hrs., 8/04/87)

A. ERCS overpacked and removed from site one 35 gallon drum of unknown liquid material and one drum of contaminated soil. Drums were characterized as Waste Pesticide N.O.S. and hazardous waste solid, respectively. Both drums were properly labeled and manifested for transportation. The prime contractor, AMO Pollution Services, Inc., removed the drums to their TSD facility in Canonsburg, PA.

B. Personnel on-scene: EPA-1, TAT-2, ERCS-3

C. Estimated projects costs to date: (COB 8/4/87)

AGENCY	COST	CEILING
EPA	\$ 0.3K	\$ 5.0K
EPA HQ (15%)	0.7K	7.5K
TAT	1.1K	7.5K
ERCS	2.7K	30.0K
TOTAL	\$ 4.8K	\$ 50.0K

D. Weather: Sunny, 90 degrees, humid

II. Actions Taken

A. OSC/TAT/ERCS mobilized to site to initiate removal activities.

B. OSC on scene to direct removal operation and sign waste manifest.

C. ERCS, in level "B" protection, obtained a sample from and overpacked the unknown liquid drum.

D. ERCS removed one drum of contaminated soil from the area around the drum.

E. ERCS collected QA and background soil samples.

F. ERCS removed the two (2) drums to their TSD facility pending final disposal.

G. TAT on scene to provide site documentation and monitor site safety.

H. OSC/TAT/ERCS demobilized from site.

Upper Glade Drum Site
Upper Glade, Webster Co., WV

III. Future Plans

A. OSC/TAT await drum sample analysis for final disposal arrangements.

B. OSC/TAT await QA sample analysis to determine if any further actions are necessary at this site.

Benton Wilmoth
Benton Wilmoth, OSC
US EPA - Region III
Wheeling, WV 26003

POLREP #3 and FINAL - Upperglade Drum Site
Upperglade, Webster Co., WV

ATTENTION: " Bob Caron, Tim Fields and Steve Jarvela

I. Situation (1200 hours, 2/8/88)

A. Two drums staged in TSD facility were shipped to Trade Waste Incineration on 12/14/87 for final disposal.

B. OSC Benton Wilmoth closed all removal actions 12/14/87.

C. Estimated costs to date:

	Cost	Ceiling
EPA	\$1.0K	\$ 5.0K
EPA HQ (15%)	1.2K	7.5K
TAT	1.4K	7.5K
ERCS	5.5K	30.0K
TOTAL	\$9.1K	\$50.0K

II. Actions Taken

A. The OSC closed all removal actions 12/14/87.

B. OSC Wilmoth directed TAT to evaluate the hazard to human health based on the analyticals received from samples taken during the 8/14/87 removal.

III. Future Plans

A. OSC to submit final draft OSC report to printing in accordance with NCP.

B. OSC to distribute OSC report upon receipt from printing.

Benton Wilmoth
Benton Wilmoth, OSC
US EPA - Region III
Wheeling, WV 26003



PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL RESOURCES
Bureau of Waste Management
P. O. Box 2083
Harrisburg, PA 17120

Uppergrade, WV

ER-SW41-51-REV. 10/84

Please print or type. (Form designed for use on 4116 (12-pitch) typewriter.)
Form Approved. OMB No. 2000-0404. Expires 7-31-88

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. WVPC0000078930487	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law but is required by State law.	
3. Generator's Name and Mailing Address US EPA 303 Methodist Bldg Wheeling, WV 26003		A. State Manifest Document Number PAB 3321393		B. State Gen. ID		
4. Generator's Phone (304) 233 9831		C. State Trans. ID PA-AH 10156		D. Transporter's Phone (412) 921-1486		
5. Transporter 1 Company Name AMO Pollution Services Inc.		6. US EPA ID Number PA D038966230		E. State Trans. ID PA-AH		
7. Transporter 2 Company Name		8. US EPA ID Number		F. Transporter's Phone		
9. Designated Facility Name and Site Address AMO Pollution Services Inc. RD #2 Box 3118 Cannonsburg, PA 15317		10. US EPA ID Number PA D038966230		G. State Facility's ID Not Required		
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers		H. Facility's Phone (412) 921-1486		
a. Waste Insecticide n.o.s. (overpacked 35 gal. Combustible Liquid NA 1993 3636 drum)		13. Total Quantity 20.0 P		14. Unit Wt/Vol P D001		
b. Hazardous Waste Solid ORM-E NA 9189 3635		15. Total Quantity 45.0 P		16. Unit Wt/Vol P D016		
J. Additional Descriptions for Materials Listed Above (include physical state and hazard code)		K. Handling Codes for Wastes Listed Above				
a. LE LU		c. LU LU		e. LU LU		
b. LE LS		d. LU LU		f. LU LU		
15. Special Handling Instructions and Additional Information AMO Pollution Services Inc. will be used for temporary storage of the above described waste materials. Upon detailed analysis, characterization, and approval, materials will be remanifested to an appropriate final TSDF.						
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. Unless I am a small quantity generator who has been exempted by statute or regulation from the duty to make a waste minimization certification under Section 3002 (b) of RCRA, I also certify that I have a program in place to reduce volume and toxicity of waste generated to the degree I have determined to be economically practicable and I have selected the method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment.						
Printed/Typed Name Benton Wilmoth		Signature Benton Wilmoth		Month Day Year 10 9 1987		
17. Transporter 1 Acknowledgment of Receipt of Materials						
Printed/Typed Name Alvin J Bruce		Signature Al J Bruce		Month Day Year 10 9 1987		
18. Transporter 2 Acknowledgment of Receipt of Materials						
Printed/Typed Name		Signature		Month Day Year		
19. Discrepancy Indication Space						
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.						
Printed/Typed Name Wendy Munda		Signature Wendy Munda		Month Day Year 10 9 1987		

STATE OF ILLINOIS

ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

2209 CHURCHILL ROAD, SPRINGFIELD, ILLINOIS 62708 (217) 782-6761

8-332-0810

DEC 23 1987

Ben

UNIFORM HAZARDOUS
WASTE MANIFEST

1. Generator's US EPA ID No.

PADO38966230

Manifest Document No.

51311

2. Page 1

of 1

Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address

AMO Pollution Services, Inc.
RD #2, Box 311B
Cannonsburg, PA 15317

4. Illinois Manifest Document Number

IL 150821

5. Generator's Phone

412 921-8486

6. Illinois Generator's ID

1430033001

7. Transporter 1 Company Name

Freehold Cartage, Inc.

8. US EPA ID Number

NJ054126164

9. Illinois Transporter's ID

SWA 15440

10. Transporter 2 Company Name

11. US EPA ID Number

12. Illinois Transporter's ID

13. Transporter's Phone

14. Facility's Phone

15. Facility's ID

16. Facility's Name

17. Facility's Address

18. Facility's Phone

19. Facility's ID

20. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)

21. Containers

22. Total Quantity

23. Unit

24. Waste No.

25. EPA HW Number

26. EPA HW Manifest

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FCI

FREEHOLD CARTAGE, INC.

P.O. BOX 4829

FREEHOLD, NJ 07728

(201) 462-1001

EPA ID# NJD054128184

E 19303

WASTE MANIFEST

A.M. POLLUTION SER. FIC

GENERATOR NAME - ADDRESS

Box 118 Cannonspire PA

PHONE (INCLUDE AREA CODE)

412-921-8486

EPA ID NO.

PA10101389662310

PROPER US DOT SHIPPING NAME	US DOT HAZARD CLASS	UN NUMBER	FORM	NET QUANTITY	MANIFEST NO.
1. HAZARDOUS WASTE SOLID N.O.S.	ORM-E	9189	5	10M	LBS
2. WASTE Combustible LIQ. N.O.S.	COMBUSTIBLE	1773	5	10M	GALS
3.					

N.J.D.E.P. #

NJSWAS

2265 21689

SPECIAL HANDLING INSTRUCTIONS INCLUDING CONTAINER EXEMPTION (N.J. IDENTIFICATION SHIPMENT OF A NON-HAZARDOUS NATURE WHICH DO NOT HAVE TO BE MANIFESTED)

24 HOUR CLOCK ONLY

TIME @ GENERATOR

IN 13:35

OUT 15:00

TRACTOR

TRAILER

FCI REP LOADING

PROCEDURE

TIME

EQUIPMENT USED

Brown

Box

And Forklift - Freehold Cartage, Inc.

GENERATOR'S CERTIFICATION: This is to certify that the above named materials are properly classified, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation, New Jersey State Department of Environmental Protection, and the Federal Department of Transportation. The waste described above were consigned to the transporter named, The Treatment, Storage or Disposal Facility, and I hereby accept the shipment of hazardous waste, and hereby certify that the foregoing is true and correct to the best of my knowledge.

GENERATOR'S SIGNATURE - ALSO PRINT SIGNATURE

Sandra Smith Sandra Smith

TITLE

AR-100052

DATE SHIPPED NJD054128184

10/24/89 19303

TSD FACILITY - ALSO SIGN & PRINT REP.

TSD FACILITY EPA ID NO.

FL 00998642914

DATE RECEIVED

310

INCOMING SPILL REPORT

RECEIVED BY:	RRC _____ Date _____	Case No: WFO _____
	Time _____	RRC _____
	WFO <u>BW</u> Date <u>7-31-87</u>	Investigator: _____
	Time <u>1420</u>	
REPORTED TO RRC BY:	Name <u>WV DNR Pam Hayes</u> Organization _____ Address _____ Telephone _____	
SPILLER:	Name <u>unidentified (owner of drums)</u> Address _____ Telephone _____	
LOCATION:	State <u>WV</u> County <u>Webster</u> City/Township <u>Glade</u> Stream <u>Glade River trib. to Gauley River</u> Directions <u>near Oliver Hall residence</u> <u>PO Box 150, Upper Glade, WV 26266</u>	
SPILL DATA:	Date <u>7-31-87</u> Time <u>12:00</u> Material <u>unknown but suspect pesticide or herbicide or</u> <u>chlorodane or solvent</u> Quantity <u>35 gal.</u> Source <u>unknown</u> Cause <u>unknown</u> Containment <u>drums uncontrolled along road</u> <u>and near the Oliver Hall residence</u> Cleanup <u>none</u>	

A child made ill for 2 days from inhaling vapor.
 Grass is dead for 10 feet around drums.

Additional comments on back

AR 100053

SITE/SAFETY PROTOCOL
Upper Glade Drum Site
Upper Glade, Webster Co., West Virginia

GENERAL

This protocol addresses the safety procedures that will be followed by any and all personnel visiting the site or involved in the CERCLA removal activity at the Upper Glade Drum Site. Personnel entering the site shall read and sign this safety plan. The protocol will remain in effect until the OSC certifies that the activity is terminated. It does not supercede any Federal OSHA or state or local regulations but is in addition to them. In the event of a conflict between this protocol and a regulation, the more stringent of the two will be in force.

Since data available at the present time does not allow a complete characterization of the one drum on the site, levels of protection for personnel will be set in accordance with the hazard of the job function and location on-site as indicated on the attached diagram.

Respiratory Protection Program

All contractor and governmental personnel involved in on-site activities shall have a written respiratory protection program and prove that they are physically fit to wear a respirator. All personnel wearing air-purifying respirators on-site are required to be fit tested, while those wearing pressure-demand self-containing breathing apparatus or air-line apparatus, must be properly trained and experienced in their use. All respiratory protection equipment is to be properly decontaminated at the end of each workday.

Persons having beards or facial hair must not wear a respirator.

Training and Medical Monitoring Program

Personnel will have both formal training and on-the-job training, in accordance with OSHA regulations, for those tasks they are assigned to perform on the active site. All unfamiliar activities will be rehearsed beforehand.

All contractor and governmental personnel who are exposed to hazardous levels of chemicals shall prove that they are enrolled in a medical monitoring program.

Upper Glade Drum Site
Upper Glade, Webster Co., West Virginia

Page 2

General Safety Rules and Equipment

- a. There will be no eating, drinking or smoking in the Exclusion Area or hot side of the Contamination Reduction Area.
- b. All personnel must pass through the Contamination Reduction Area to enter the Exclusion Area.
- c. An emergency eye wash will be on the hot side of the Contamination Reduction Area.
- d. As a minimum, an emergency deluge shower/spray can is to be located on the clean side of the Contamination Reduction Area.
- e. At the end of the work, all personnel working in the Exclusion Area shall take a hygienic shower.
- f. All supplied breathing air shall be certified as Grade D or better.
- g. Where practical, all tools/equipment will be spark proof, explosion resistant and/or bonded and grounded.
- h. Fire extinguishers will be on-site for equipment or personnel fires only.
- i. A first-aid kit will be on-scene at all times during operational hours. An oxygen inhalator respirator will be available. The location of these items on-site will be posted.
- j. Persons having beards or facial hair must not wear respirators.
- k. No work will be performed in the exclusion area during hours of darkness as determined by the site safety officer.

Morning Safety Meeting

A morning safety meeting will be conducted each day for all site personnel who sign a daily attendance sheet. The safety procedures, evacuation procedures, and escape procedures, as well as the day's planned operations, should be discussed.

AR100055

Upper Glade Drum Site
Upper Glade, Webster Co., West Virginia

Page 3

CONTROL-AT THE SITE

Access to the site will be restricted by a site security officer and banner guard installed during the immediate removal phase at this site and exit from the site shall be through the gate in the Contamination Reduction Area except in a life-threatening emergency.

All persons entering the site shall sign in and out at the OSC command post or with the site security officer.

DESIGNATION OF WORK AREAS AT THE SITE

The entire site will be divided into three areas: (1) Exclusion Area which known to be or have a potential for becoming contaminated; (2) the Contamination Reduction Area where decontamination of personnel and equipment exiting the Exclusion Area is performed; (3) the Support Area which is not contaminated.

The Exclusion Area (EA)

At the Upper Glade Drum Site, the Exclusion Area shall initially include all areas inside the banner guard.

The Contamination Reduction Area (CRA)

At the Upper Glade Drum Site, the Contamination Reduction Area will be located immediately outside the Exclusion area and will be delineated by roped off area.

The Support Area (SA)

At the Upper Glade Drum Site, the Support Area will be the area outside the Exclusion Area and Contamination Reduction Area.

Changes in Designation of Work-Areas

As work progress on-side, the OSC may determine that an area previously designed an EA is no longer classified in that manner. It is not intended, however, to change the designation of the CRA since this may involve the movement of the decontamination facilities and added expense.

SAFETY PROCEDURES AND LEVELS OF PROTECTION

Exclusion Area

1. All personnel shall enter and exit the Exclusion Area through the Contamination Reduction Area.

AR100056

2. Emergency escape routes from the Exclusion Area will be established and reviewed as appropriate at each morning safety meeting.

Upper Glade Drum Site
Upper Glade, Webster Co., West Virginia

Page 4

SAFETY PROCEDURES AND LEVELS OF PROTECTION (continued)

Exclusion Area

3. All personnel in the Exclusion Area shall use the protective equipment designed for their job function but in no case shall less than LEVEL B be used.
4. Personnel performing the following job functions in the Exclusion Area will utilize the designed level of protection equipment.

Contamination Reduction Area

1. Personnel and equipment decontamination will be performed in Level C.
2. All personnel entering the CRA will utilize a minimum of Level C protection.
3. All personnel entering the CRA must decontaminate which will be performed in Level C.
4. All equipment entering the CRA must be decontaminated prior to leaving the CRA.

Support Area

1. No contaminated equipment or personnel may enter the Support Area.
2. Except in the case of a release of a Toxic vapor, Level D will be appropriate for all personnel in the Support Area.

Prime Contractor

1. Barrel opening, sampling, and overpacking will be performed in Level B. This applies to anyone involved, including equipment operators.

DECONTAMINATION PROTOCOL

All equipment and personnel entering the site must be thoroughly decontaminated prior to leaving the site. Since there are various protocol and equipment available for this purpose, the OSC will

AR100057

determine if the proposed decontamination techniques are applicable. Such determinations will be made on a day-to-day basis as on-site operations dictate.

Upper Glade Drum Site
Upper Glade, Webster Co., West Virginia

Page 5

EMERGENCY PROCEDURES

In the event of a medical or other emergency, the OSC or his designee will notify the appropriate authority. The following list of phone numbers will be posted prominently at each telephone on-site:

1. Fire (304) 226-3192
2. Ambulance (304) 847-5193
3. Police (304) 847-2006
4. Federal Government (215) 597-9898
5. EPA Environmental Response Team (201) 321-6649
6. Hospitals (304) 847-5682

AR100058

SITE NAME

DATE _____

8/4/87

TIME

OUT

NAME

AGENCY

AR100059

Unshaded areas are for use of procurement office only

Page of

Procurement Request/Order		1. Name of Originator Rep Wilmoth		2. Date of Requisition 8-3-87			
		3. Mail Code 31W		4. Telephone Number 215 597-			
6. Signature of Originator				7. Recommended Procurement Method <input type="checkbox"/> Competitive <input type="checkbox"/> Other than full and open competition <input type="checkbox"/> Sole source small purchase			
8. Deliver To (Project Manager) Thomas Massey		9. Address 841 Chestnut St., Phila., PA 19107		10. Mail Code 38W22			
12. Financial Data 68/20x8145		13. Appropriation		14. Servicing Finance Office Number			
15. FMO Use (if 13 digits)		16. Document Control Number (if 16 digits) R71A88		17. Account Number (if 10 digits) 70PA3AWXIA			
		18. Object Class (if 14 digits) 25.35		19. Amount (in) 30,000 00			
		20. Dollars		21. Cents			
13. Suggested Source (Name, Address, ZIP Code, Phone/Contact) ERCS Zone I OH Materials							
14. Amount of money committed is <input checked="" type="checkbox"/> Original <input type="checkbox"/> Increase <input type="checkbox"/> Decrease							
15. For Small Purchases Only: Contracting Office is authorized to exceed the amount shown in Block 12(h) by 10% or \$100, whichever is less. <input type="checkbox"/> Yes <input type="checkbox"/> No							
16. Approvals							
a. Branch/Office Thomas C. Voltaggio		b. Date 8/1/87		c. Property Management Officer/Designee			
d. Division/Office Stephen R. Vassere		e. Date 8/1/87		f. Other (Specify)			
g. Funds listed in Block 12 and Block 15 (if any) are available and reserved. (Signature of Certifying Official) Rich Messimer		h. Date 8/4/87		i. Other (Specify)			
17. Date of Order 8-3-87		18. Order Number 7445-03-001		19. Contract Number (if any) 68-01-7445			
20. Discount Terms		21. FOB Point		22. Delivery to FOB Point by On or before (Date)			
23. Person Taking Order/Quote and Phone No.		24. Contractor (Name, address, ZIP Code) OH Materials Findlay, Ohio		25. Type of Order <input type="checkbox"/> a. Purchase Please furnish the above on the terms specified on both sides of this order and on the attached sheets, if any, including delivery as indicated. <input type="checkbox"/> b. Delivery provisions on the reverse are deleted. The delivery order is subject to the terms and conditions of the contract. (See Block 19) c. <input type="checkbox"/> Oral <input type="checkbox"/> Written <input type="checkbox"/> Confirming			
26. Schedule							
Item Number (a)	Supplies or Services (b)	Quantity Ordered (c)	Unit (d)	Estimated Unit Price (e)	Unit Price (f)	Amount (g)	Quantity Accepted (h)
	SITE NAME: Upper glade Drum Pump						
	SITE ID: 1A						
	LOCATION: County: Webster City: Upperglade State: WV						
	DELIVERY ORDER: 7445-03-001						
	Contract Number: 68-01-7445						
				AR100060		Total \$	
27. United States of America By (Signature)				28. Typed Name and Title of Contracting Officer			